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09/988,527	11/20/2001	Jean-Pierre Mao	034299-364	8860
7590 10/10/2007 . Robert E. Krebs THELEN REID & PRIEST			EXAMINER	
			SEFCHECK, GREGORY B	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	09/988,527	MAO, JEAN-PIERRE
Office Action Summary	Examiner	Art Unit
·	Gregory B. Sefcheck	2619
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIO B6(a). In no event, however, may a rivill apply and will expire SIX (6) MON cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 10 Au This action is FINAL. 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matt	
Disposition of Claims		
4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		
Application Papers		·
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 10) The oath or declaration is objected to by the Examiner 11)	epted or b) objected to drawing(s) be held in abeyar on is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		*
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received s have been received in A ity documents have been (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attach mant/a)		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application

DETAILED ACTION

- Applicant's Amendment filed 8/10/2007 is acknowledged.
- Claim 1 has been amended. The previous objection to claim 1 is withdrawn.
- Claims 1-3 remain pending.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robins et al. (US006430184B1), hereafter Robins.
 - In regards to Claims 1 and 2,

Robins discloses a process and device for communicating data packet flows, including Asynchronous Transfer Mode (ATM; Abstract; Col. 1, line 27; claim 1,2 – process/device for deterministic transmission of asynchronous data in packets).

Referring to Figs. 1 and 2, data is received from the Quad PHY 1 physical interface at MOM 1 chip 10 (input module) and then stored in one of a plurality of FIFOs managed by Queue Manager 30 (QM; packeting module; Col. 5-6, lines 43-23; Col. 14, lines 15-28; claim 1,2 – receiving data at input module and storing in FIFOs connected to one or more packeting modules).

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Robins further discloses Forwarding Engine 40 that provides instructions to the QM for packeting based upon received headers, which are added to the packets before transmitting them out so they may be recovered in their predefined order (sorting and enhancement data; Col. 7, lines 8-13; Col. 8, lines 8-57; claim 1,2 – packeting data from FIFOs in a first set of packets in a first packeting cycle according to a predetermined order with sorting and enhancement data; claim 1,2 – recovering one after another of the first packets, in a predefined order, to form a first message; claim 1 - allowing synchronization of start and end of packets in relation to their transmission in the output message).

Robins discloses a "cut-through" mode of operation in which packeting is ended and the data is transmitted before a complete packet is realized, such that portions of a packet may be transmitted while other portions are still being received (Col. 17, lines 25-45; Col 16, lines 17-64; claim 1,2 – ending packeting cycle; claim 1,2 – forwarding first packets regardless of state of completion of first packeting cycle; claim 1,2 – beginning start of second packeting cycle):

Robins shows that packets are then sent out another port on a Quad PHY 2 (Fig. 1; <u>claim 1,2</u> – setting/outputting of the message in the electrical format of the protocol used for transmission).

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Robins does not explicitly show the "cut-through" mode of operation comprising a request from the message composition module.

However, Robins does disclose that the Forwarding Engine 40 is responsible for providing instructions to the QM and MOM for packeting according to the linked-lists of packet descriptors stored in buffers of the QM. Therefore, the instruction (request) to perform packeting in accordance with "cut-through" mode would come from the Forwarding Engine 40 (message composition module; Col. 7, lines 8-13; claim 1,2 – ending packeting cycle at the request of a message composition module).

It would have been obvious to one of ordinary skill in the art at the time of the invention to initialize "cut-through" mode in the process and device of Robins through an instruction, or request, from the Forwarding Engine 40. One of ordinary skill in the art would be motivated to do this because the Forwarding Engine 40 is already shown to provide instructions to the QM and MOM for packeting in a standard mode of operation, so any change to the mode of operation should be initiated from Forwarding Engine 40.

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3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Robins in view of Troxel et al. (US006014381A), hereafter Troxel.

In regards to Claim 3,

Robins discloses a process and device for communicating data packet flows that covers all limitations of the parent claim.

Robins does not explicitly disclose the use of the process in data acquisition and real-time processing systems for test installation of new airplanes.

The use of the packetization process shown by Robins would be beneficial for data acquisition and real-time processing systems of any type, including those used on airplanes as shown by Troxel (Col. 1; <u>claim 3</u> – use of claim 1 process in data acquisition and real-time processing systems for test installation of new airplanes).

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the process of Robins in data acquisition and real-time processing systems, including those used in airplanes, as shown by Troxel, so that portions of data packets can be transmitted while other portions of the packets are still being processed.

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Response to Arguments

4. Applicant's arguments filed 8/10/2007 have been fully considered but they are not persuasive.

- In the Remarks on pg. 4 of the Amendment, Applicant contends that Robins does not disclose the limitations "after sending of a request by a message composition module, ending said first packing cycle in packeting modules" or "a message composition module receiving....is completed" as in claims 1 and 2, respectively. Applicant alleges that these limitations are not met by Robins because the MII disclosed by Robins in Figs. 1 and 2 does not read on the "message composition module", as claimed. Applicant further argues that the packets disclosed by Robins do not meet the claimed "message", since Applicant defines a message as successive packets in a predefined order.
- The Examiner respectfully disagrees. As shown in the above rejections, it is admitted that Robins does not explicitly disclose a message composition module. The rejection goes on to show that the Forwarding Engine 40 disclosed by Robins acts as a message composition module in that the Forwarding Engine 40 instructs (requests) processing in "cut-through" mode, which is disclosed by Robins to enable transmission of portions of a packet while other portions are still being received, thereby meeting the contested claim limitations. Further, Robins discloses a packet is made of successive order of cells. Therefore, Robins' "packet" meets the claimed "message".

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 In the Remarks on pg. 5 of the Amendment, Applicant contends that claim rejections based upon the disclosure of Robins are improper because Robins pertains to solving a different problem than the stated purpose of Applicant's disclosure.

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- The Examiner respectfully disagrees. Robins is not required to explicitly pertain to solving the same technical problems as the present application in order to disclose the claimed limitations. Furthermore, while it is admitted the Robins pertains to resolving the problems cited by Applicant and that those problems differ from those contemplated by the Applicant, Robins nonetheless discloses the explicit limitations claimed by Applicant.

 Therefore, the rejections are proper.
- In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., message can contain no data, the solving of specified technical problems, etc.) on pg. 5 of the Remarks are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory B. Sefcheck whose telephone number is 571-272-3098. The examiner can normally be reached on Monday-Friday, 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gregøry Sefeheck Patent Examiner

10-3-2007